Colloids and Surfaces, 52 (1991) 358–359
Elsevier Science Publishers B.V., Amsterdam

Contents

(Abstracted/indexed in: Chemical Abstracts; Current Contents: Physical, Chemical & Earth Sciences; INSPEC; PASCAL/CNRS)

VOLUME 52 (1991)

Special Issue: Thin Solid and Liquid Films. A Collection of Invited Papers Presented at an International Symposium on Thin Solid and Liquid Films, Bristol, United Kingdom, 11–13 September 1989.

Preface vii

Thin wetting films
A.M. Cazabat, N. Fraysse and F. Heslot (Paris, France) 1

Forces between solid surfaces in binary solutions
T.K. Vanderlick, L.E. Scriven and H.T. Davis (Minneapolis, MN, U.S.A.) 9

Infrared spectroscopy of Langmuir–Blodgett multilayers
J. Yarwood (Durham City, United Kingdom) 35

Thin liquid films in a non-aqueous medium
C.B. McKendrick, S.J. Smith and P.A. Stevenson (Chester, United Kingdom) 47

The effect of interfacial mass transport on flow in thin liquid films
P.C. Wayner Jr (Troy, NY, U.S.A.) 71

The application of neutron reflection to the study of layers adsorbed at liquid interfaces
T.L. Crowley (Manchester, United Kingdom), E.M. Lee, E.A. Simister, R.K. Thomas (Oxford, United Kingdom), J. Penfold (Didcot, United Kingdom) and A.R. Rennie (Grenoble, France) 85

Ionic features in free liquid films on non-ionics
P.A. Barneveld, J.M.H.M. Scheutjens and J. Lyklema (Wageningen, The Netherlands) 107

Chemical reactivity at the air–water interface: Redox properties of the tetrapyridino porphyrazinium ring
S. Palacin and A. Barraud (Gif sur Yvette, France) 123

Kinetics of contact angle formation at the gas–liquid–solid interphase
N.A. Debacher and R.H. Ottewill (Bristol, United Kingdom) 149

The drainage of a thin aqueous film between a solid surface and an approaching gas bubble
L.R. Fisher, E.E. Mitchell (North Ryde, Australia), D. Hewitt, J. Ralston (Ingle Farm, Australia) and J. Wolfe (Kensington, Australia) 163

End of Special Issue papers

The nucleation of water on hexadecane. The nuclei number determination by the reverse Wilson chamber (RWC) method
V.M. Chakarov, A.D. Alexandrov, B.V. Toshev and A.D. Scheludko (Sofia, Bulgaria) 175

The deposition of MoO_3 on poly(1,4-phenylene)terephthalamide
E. Dalas, J. Kallitsis, A. Lycourghiotis and P.G. Koutsoukos (Patras, Greece) 185

Penetration of poly(oxyethylene)-poly(oxypropylene) block copolymer surfactant into soya phospholipid monolayers
N.S. Santos Magalhaes (Châtenay-Malabry, France), S. Benita (Jerusalem, Israel) and A. Baszkin (Châtenay-Malabry, France) 195

Colloids and Surfaces, 52 (1991) 358–359
Elsevier Science Publishers B.V., Amsterdam

Contents

(Abstracted/indexed in: Chemical Abstracts; Current Contents: Physical, Chemical & Earth Sciences; INSPEC; PASCAL/CNRS)

VOLUME 52 (1991)

Special Issue: Thin Solid and Liquid Films. A Collection of Invited Papers Presented at an International Symposium on Thin Solid and Liquid Films, Bristol, United Kingdom, 11–13 September 1989.

Preface vii

Thin wetting films
A.M. Cazabat, N. Fraysse and F. Heslot (Paris, France) 1

Forces between solid surfaces in binary solutions
T.K. Vanderlick, L.E. Scriven and H.T. Davis (Minneapolis, MN, U.S.A.) 9

Infrared spectroscopy of Langmuir–Blodgett multilayers
J. Yarwood (Durham City, United Kingdom) 35

Thin liquid films in a non-aqueous medium
C.B. McKendrick, S.J. Smith and P.A. Stevenson (Chester, United Kingdom) 47

The effect of interfacial mass transport on flow in thin liquid films
P.C. Wayner Jr (Troy, NY, U.S.A.) 71

The application of neutron reflection to the study of layers adsorbed at liquid interfaces
T.L. Crowley (Manchester, United Kingdom), E.M. Lee, E.A. Simister, R.K. Thomas (Oxford, United Kingdom), J. Penfold (Didcot, United Kingdom) and A.R. Rennie (Grenoble, France) 85

Ionic features in free liquid films on non-ionics
P.A. Barneveld, J.M.H.M. Scheutjens and J. Lyklema (Wageningen, The Netherlands) 107

Chemical reactivity at the air–water interface: Redox properties of the tetrapyridino porphyrazinium ring
S. Palacin and A. Barraud (Gif sur Yvette, France) 123

Kinetics of contact angle formation at the gas–liquid–solid interphase
N.A. Debacher and R.H. Ottewill (Bristol, United Kingdom) 149

The drainage of a thin aqueous film between a solid surface and an approaching gas bubble
L.R. Fisher, E.E. Mitchell (North Ryde, Australia), D. Hewitt, J. Ralston (Ingle Farm, Australia) and J. Wolfe (Kensington, Australia) 163

End of Special Issue papers

The nucleation of water on hexadecane. The nuclei number determination by the reverse Wilson chamber (RWC) method
V.M. Chakarov, A.D. Alexandrov, B.V. Toshev and A.D. Scheludko (Sofia, Bulgaria) 175

The deposition of MoO_3 on poly(1,4-phenylene)terephthalamide
E. Dalas, J. Kallitsis, A. Lycourghiotis and P.G. Koutsoukos (Patras, Greece) 185

Penetration of poly(oxyethylene)-poly(oxypropylene) block copolymer surfactant into soya phospholipid monolayers
N.S. Santos Magalhaes (Châtenay-Malabry, France), S. Benita (Jerusalem, Israel) and A. Baszkin (Châtenay-Malabry, France) 195

Peptization of asphaltene by various oil soluble amphiphiles
G. González and A. Middea (Rio de Janeiro, Brazil) 207
The sliding of sessile and pendent droplets. The critical condition
B.J. Briscoe and K.P. Galvin (London, United Kingdom) 219
Kinetics of crystallization and flocculation of calcium fluoride
L.A. Perez and G.H. Nancollas (Buffalo, NY, U.S.A.) 231
Interfacial properties of zirconium dioxide prepared by the sol–gel process
J. Randon, A. Larbot, C. Guizard, L. Cot, M. Lindheimer and S. Partyka
(Montpellier, France) 241
Influence of surface active substances on the electric surface properties of purple membrane fragments
I.B. Petkanchin, S.G. Taneva and G.S. Todorov (Sofia, Bulgaria) 257
Effect of medium acidity on the spectral behaviour of some pyrazinyl diolefinic laser dyes
M.A. Salem (Tanta, Egypt) 269
DODAC in bidimensional states. Monolayers, Langmuir–Blodgett films and vesicles
F. Bonosi and G. Gabrielli (Florence, Italy) 277
Electrostatic surface potentials of cationic and anionic oil-in-water microemulsion droplets free from added electrolyte
B.S. Murray (Parkville, Australia), C.J. Drummond (Clayton, Australia), L. Gale, F. Grieser and L.R. White (Parkville, Australia) 287
Physicochemical properties of sulfonated fatty acid esters for oil recovery by surfactant flooding
M. Bavière, B. Bazin and J.-C. Miléo (Rueil-Malmaison, France) 301
Surface structure of finely dispersed iron powders. I. Formation of stabilizing coating
O.M. Mikhailik (Kiev, U.S.S.R.), V.I. Povstugar, S.S. Mikhailova, A.M. Lyakhovich, (Izhevsk, U.S.S.R.), O.M. Fedorenko, G.T. Kurbatova, N.I. Shklovskaya and A.A. Chuiko (Kiev, U.S.S.R.) 315
Surface structure of finely dispersed iron powders. II. Specific features of stabilizing coating structure
O.M. Mikhailik (Kiev, U.S.S.R.), V.I. Povstugar, S.S. Mikhailova (Izhevsk, U.S.S.R), O.M. Fedorenko, G.T. Kurbatova, N.I. Shklovskaya and A.A. Chuiko (Kiev, U.S.S.R) 325
Surface structure of finely dispersed iron powders. III. Structure of a γ-amino-propyltriethoxysilane-modified coating
O.M. Mikhailik, O.M. Fedorenko (Kiev, U.S.S.R.), S.S. Mikhailova, V.I. Povstugar, A.M. Lyakhovich (Izhevsk, U.S.S.R.), G.T. Kurbatova, N.I. Shklovskaya and A.A. Chuiko (Kiev, U.S.S.R.) 331
Winsor transitions and interfacial film compositions in systems containing sodium dodecylbenzene sulphonate and alkanols
T. Ahsan, R. Aveyard and B.P. Binks (Hull, United Kingdom) 339

Announcements 353
Author Index 355
Subject Index 356
Contents (Vol. 52) 358